



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 4th Feb 2021

To,

1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के.,14 , गोल्फ क्लब रोड , कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. कार्यकारी निदेशक, ऊ.क्षे.भा.प्रे.के., 18/ ए , शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली – 110016
Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi – 110016
3. कार्यकारी निदेशक, प.क्षे.भा.प्रे.के., एफ3-, एम आई डी सी क्षेत्र , अंधेरी, मुंबई –400093
Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
4. कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतेह, लोअर नोंग्रह , लापलंग, शिलोंग – 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. कार्यकारी निदेशक , द.क्षे.भा.प्रे.के.,29 , रेस कोर्स क्रॉस रोड, बंगलुरु –560009
Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 03.02.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-फरवरी -2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उपलब्ध है ।

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 3rd February 2021, is available at the NLDC website.

धन्यवाद,

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting: 04-Feb-2021

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	50977	53480	43364	19473	2591	169885
Peak Shortage (MW)	950	0	70	0	21	1041
Energy Met (MU)	1052	1275	1044	393	44	3809
Hydro Gen (MU)	93	60	76	34	10	274
Wind Gen (MU)	4	28	64	-	-	96
Solar Gen (MU)*	37.54	34.54	104.22	4.77	0.18	181
Energy Shortage (MU)	13.64	0.00	0.20	0.00	0.14	13.98
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55462	61904	52578	19665	2635	188118
Time Of Maximum Demand Met (From NLDC SCADA)	10:25	11:23	09:44	18:44	18:02	09:28

B. Frequency Profile (%)

Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.027	0.00	0.09	1.76	1.85	75.67	22.48

C. Power Supply Position in States

Region	States	Max.Demand Met during the day(MW)	Shortage during maximum Demand(MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU)
NR	Punjab	7093	0	135.1	63.5	-1.6	66	0.00
	Haryana	7062	0	141.0	85.1	-0.1	99	0.00
	Rajasthan	14059	195	269.7	93.5	3.6	689	0.97
	Delhi	4244	0	68.4	57.8	-1.3	201	0.00
	UP	17851	0	306.2	91.6	-1.6	276	0.00
	Uttarakhand	2133	70	41.0	28.2	-0.9	113	0.27
	HP	1830	0	33.1	27.8	0.5	164	0.00
	J&K(UT) & Ladakh(UT)	2729	550	53.5	49.0	-0.3	340	12.40
WR	Chandigarh	246	0	3.8	3.7	0.1	23	0.00
	Chhattisgarh	4359	0	93.5	41.0	1.8	392	0.00
	Gujarat	16409	0	350.7	129.2	0.9	1005	0.00
	MP	14932	0	288.4	180.6	-0.6	445	0.00
	Maharashtra	23865	0	486.5	140.0	-1.2	752	0.00
	Goa	498	0	10.1	9.8	0.0	136	0.00
	DD	349	0	7.8	7.4	0.4	188	0.00
	DNH	855	0	19.7	19.6	0.1	331	0.00
SR	AMNSIL	842	0	18.6	5.6	0.0	247	0.00
	Andhra Pradesh	9380	0	183.4	79.8	0.3	470	0.00
	Telangana	12761	0	243.5	109.8	-0.5	385	0.00
	Karnataka	12699	0	236.6	79.0	0.2	664	0.00
	Kerala	3728	70	75.7	49.9	0.4	207	0.20
	Tamil Nadu	14052	0	296.9	175.1	-0.6	561	0.00
	Puducherry	377	0	7.8	7.9	-0.2	25	0.00
	ER	Bihar	4950	0	92.0	85.6	-0.8	385
DVC		3148	0	69.5	49.1	-0.4	281	0.00
Jharkhand		1468	0	26.2	18.7	-1.2	209	0.00
Odisha		4081	0	73.7	2.4	1.2	498	0.00
West Bengal		6685	0	130.2	9.7	0.2	441	0.00
Sikkim		131	0	1.9	1.9	0.0	43	0.00
NER	Arunachal Pradesh	145	1	2.3	2.4	-0.3	58	0.01
	Assam	1461	15	24.6	19.7	0.2	164	0.10
	Manipur	225	1	2.8	3.2	-0.5	19	0.01
	Meghalaya	377	0	6.8	4.2	0.5	67	0.00
	Mizoram	122	1	1.7	1.6	-0.2	26	0.01
	Nagaland	145	1	2.5	2.1	0.4	18	0.01
	Tripura	223	0	3.6	2.5	-0.2	40	0.00

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.7	-14.5	-12.5
Day Peak (MW)	326.0	-738.0	-551.0

E. Import/Export by Regions (in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	249.8	-242.7	118.8	-127.1	1.3	0.0
Actual(MU)	250.5	-235.1	102.6	-127.7	2.3	-7.5
O/D/U/D(MU)	0.7	7.6	-16.2	-0.6	1.0	-7.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5624	13508	6382	2445	500	28459	42
State Sector	9396	15448	9577	4245	11	38676	58
Total	15020	28955	15959	6690	511	67135	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	603	1408	573	513	7	3105	78
Lignite	24	8	45	0	0	76	2
Hvdro	93	60	76	34	10	273	7
Nuclear	18	26	43	0	0	87	2
Gas, Naptha & Diesel	22	31	13	0	30	96	2
RES (Wind, Solar, Biomass & Others)	69	64	205	5	0	342	9
Total	829	1596	955	552	47	3979	100
Share of RES in total generation (%)	8.18	3.98	21.49	0.86	0.38	8.60	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	22.51	9.35	33.99	7.07	21.45	17.66	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.040

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 04-Feb-2021

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
Import/Export of ER (With NR)									
1	HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0	
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.0	-6.0	
3	765 kV	GAYA-VARANASI	2	0	836	0.0	11.7	-11.7	
4	765 kV	SASARAM-FATEHPUR	1	17	283	0.0	3.1	-3.1	
5	765 kV	GAYA-BALIA	1	0	572	0.0	8.9	-8.9	
6	400 kV	PUSAULI-VARANASI	1	0	229	0.0	4.7	-4.7	
7	400 kV	PUSAULI -ALLAHABAD	1	0	80	0.0	1.3	-1.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	782	0.0	9.8	-9.8	
9	400 kV	PATNA-BALIA	4	0	1144	0.0	18.3	-18.3	
10	400 kV	BIHARSHARIFE-BALIA	2	0	454	0.0	6.0	-6.0	
11	400 kV	MOTIHARIGORAKHPUR	2	0	340	0.0	6.2	-6.2	
12	400 kV	BIHARSHARIFE-VARANASI	2	138	199	0.0	1.0	-1.0	
13	220 kV	PUSAULI-SAHUPURI	1	0	104	0.0	1.6	-1.6	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.6	0.0	0.6	
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.6	78.2	-77.6
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	637	528	4.5	0.0	4.5	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	598	438	3.0	0.0	3.0	
3	765 kV	JHARSUGUDA-DURG	2	2	335	0.0	3.2	-3.2	
4	400 kV	JHARSUGUDA-RAIGARH	4	97	425	0.0	3.3	-3.3	
5	400 kV	RANCHI-SIPAT	2	205	182	1.1	0.0	1.1	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	120	0.0	0.9	-0.9	
7	220 kV	BUDHIPADAR-KORBA	2	141	28	1.7	0.0	1.7	
						ER-WR	10.3	7.4	2.9
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	561	0.0	12.4	-12.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1988	0.0	36.6	-36.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2370	0.0	46.9	-46.9	
4	400 kV	TALCHER-I/C	2	250	629	0.0	3.0	-3.0	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	95.9	-95.9
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	176	98	1.0	0.0	1.0	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	210	115	1.1	0.0	1.1	
3	220 kV	ALIPURDUAR-SALAKATI	2	35	36	0.3	0.0	0.3	
						ER-NER	2.4	0.0	2.4
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	289	0	6.0	0.0	6.0	
						NER-NR	6.0	0.0	6.0
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	626	0.0	45.7	-45.7	
2	HVDC	VINDHYACHAL B/B	-	240	0	6.0	0.0	6.0	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1737	0.0	41.4	-41.4	
4	765 kV	GWALIOR-AGRA	2	0	2625	0.0	41.5	-41.5	
5	765 kV	PHAGL-GWALIOR	2	0	1545	0.0	26.9	-26.9	
6	765 kV	JABALPUR-ORAI	2	0	1043	0.0	35.6	-35.6	
7	765 kV	GWALIOR-ORAI	1	659	0	12.2	0.0	12.2	
8	765 kV	SATNA-ORAI	1	0	1346	0.0	26.7	-26.7	
9	765 kV	CHITORGARH-BANASKANTHA	2	746	331	4.1	0.0	4.1	
10	400 kV	ZERDA-KANKROLI	1	188	32	1.8	0.0	1.8	
11	400 kV	ZERDA -BHINMAL	1	121	266	0.0	1.5	-1.5	
12	400 kV	VINDHYACHAL-RIHAND	1	501	0	11.4	0.0	11.4	
13	400 kV	RAPP-SIHUAIPIR	2	3	405	0.0	5.7	-5.7	
14	220 kV	BHANPURA-RANPUR	1	0	169	0.0	0.1	-0.1	
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.0	0.0	
16	220 kV	MEHGAON-AURAIYA	1	134	0	1.8	0.0	1.8	
17	220 kV	MALANPUR-AURAIYA	1	84	9	1.0	0.0	1.0	
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0	
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.8	-0.8	
						WR-NR	38.4	227.7	-189.3
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1099	0.0	10.0	-10.0	
2	HVDC	RAIGARH-PUGAUR	2	957	1508	0.0	3.2	-3.2	
3	765 kV	SOLAPUR-RAICHUR	2	801	1562	0.0	14.1	-14.1	
4	765 kV	WARDHA-NIZAMABAD	2	0	2383	0.0	40.0	-40.0	
5	400 kV	KOLHAPUR-KUDGI	2	1497	0	23.4	0.0	23.4	
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	1	1	0	0.0	0.0	0.0	
8	220 kV	XELDEM-AMBEWADI	1	0	54	1.0	0.0	1.0	
						WR-SR	24.4	67.2	-42.8

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1&2 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	171	97	105	2.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	95	0	77	1.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.6
	NER	132KV-GEYLEGPHU - SALAKATI	39	10	24	0.6
	NER	132kV Motanga-Rangis	21	5	14	0.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	0	0	0	-1.8
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-306	-233	-269	-6.5
	ER	132KV-BIHAR - NEPAL	-349	-157	-262	-6.3
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-446	-430	-433	-10.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	53	0	-45	-1.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	52	0	-45	-1.1